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Analysis of encapsulated polymer system technology application methods and other diverter technologies in order to increase oil recovery

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Abstract

© Research India Publications 2015. The use of flow diverter technologies (FDT) is presented by the injection of limited amounts of special reagents into the injection wells designed to reduce the high permeability of an interlayer. The use of flow diverter technologies is aimed at injection profile leveling in respect of injection wells and the redistribution of filter flows in heterogeneous by permeability and highly watered interlayers of productive layers. In literature devoted to the methods of enhanced oil recovery (MEOR), a significant place is given to the discussion of flow deflection technologies aimed to improve the development of stock highly productive horizons. On the basis of various production data this article analyzes the application of methods increasing the oil recovery factor (ORF), namely the flow deflection technologies in various RF fields, including the technologies of encapsulated polymer systems (EPS). The paper concluded that the technology of encapsulated polymer systems in the wells of various RF deposits enabled to increase the oil recovery of layers and the blocking of water flow into high permeability areas. Also, the use of technologies with the application of encapsulated polymer systems allows to improve significantly the performance in terms of additional oil production growth and also to increase the oil recovery factor.

Keywords

Encapsulated polymer system, Flow deviating technology, Oil recovery factor, Polymer flooding